

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092420\
 Data File : VN063653.D
 Acq On : 25 Sep 2020 2:13
 Operator : JC/MD
 Sample : PB131850TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131850TB

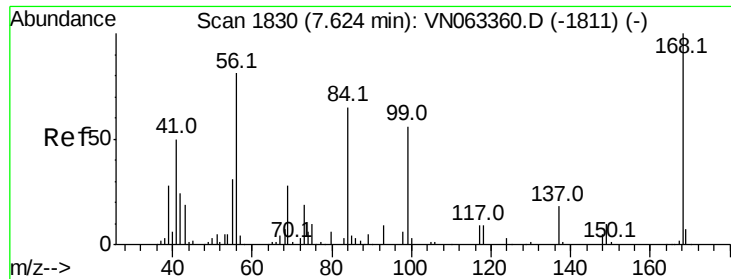
Quant Time: Sep 25 05:37:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	218564	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	412330	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	435334	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	174518	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	183454	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	
35) Dibromofluoromethane	7.55	113	135372	47.42	ug/l	0.00
Spiked Amount			Recovery	=	94.84%	
50) Toluene-d8	10.06	98	554530	51.66	ug/l	0.00
Spiked Amount			Recovery	=	103.32%	
62) 4-Bromofluorobenzene	12.38	95	216172	54.94	ug/l	0.00
Spiked Amount			Recovery	=	109.88%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	10440	8.731	ug/l	96
18) Methyl Acetate	4.29	43	3341	1.101	ug/l #	62
20) Methylene Chloride	4.51	84	11772	3.886	ug/l	95
29) Tetrahydrofuran	7.16	42	351	0.279	ug/l #	35
31) Cyclohexane	7.62	56	6445	1.254	ug/l #	14
36) 1,1-Dichloropropene	7.62	75	21153	4.815	ug/l #	52
38) Carbon Tetrachloride	7.62	117	24454	5.453	ug/l #	19
43) Isopropyl Acetate	8.13	43	71854	9.321	ug/l	98
45) 1,2-Dichloropropane	9.24	63	1595	0.467	ug/l #	43
48) Methyl methacrylate	9.14	41	4545	1.200	ug/l #	15
49) 1,4-Dioxane	9.23	88	58	1.067	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	6962	1.613	ug/l	94
54) cis-1,3-Dichloropropene	9.87	75	30266	5.512	ug/l #	65
56) Ethyl methacrylate	10.52	69	1775	0.380	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5158	0.955	ug/l #	42
59) 2-Hexanone	10.74	43	84107	26.900	ug/l #	53
74) N-amyl acetate	12.01	43	3196	0.483	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	120391	27.871	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	6340	0.544	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.38	75	120391	76.412	ug/l #	7

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063653.D

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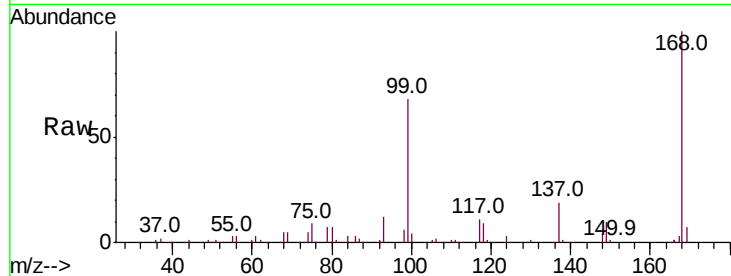
PB131850TB

Tot Ion:168 Resp: 218564

Ion Ratio Lower Upper

168 100

99 67.5 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

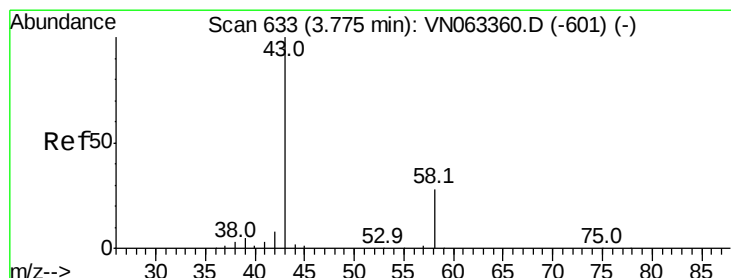
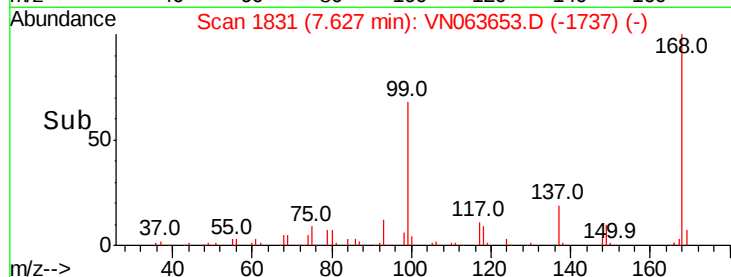
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 8.731 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063653.D

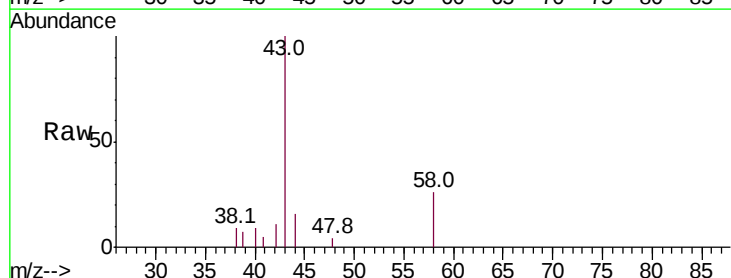
Acq: 25 Sep 2020 2:13

Tgt Ion: 43 Resp: 10440

Ion Ratio Lower Upper

43 100

58 25.6 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

4000

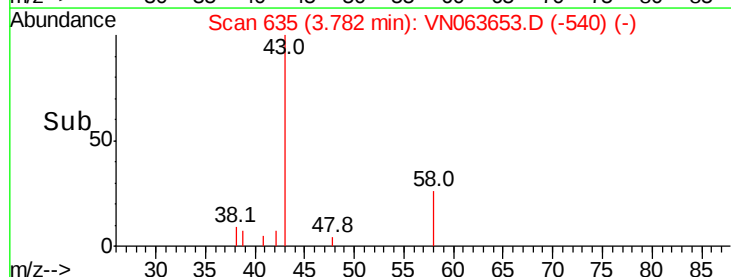
3000

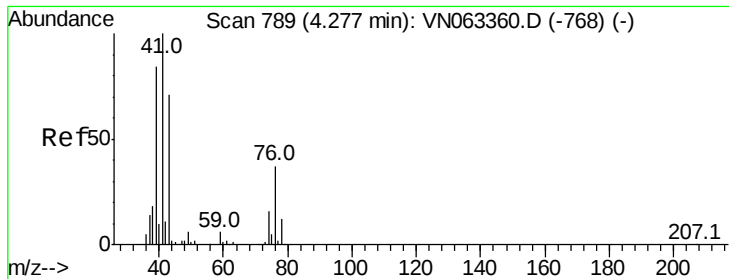
2000

1000

0

Time--> 3.70 3.75 3.80 3.85 3.90

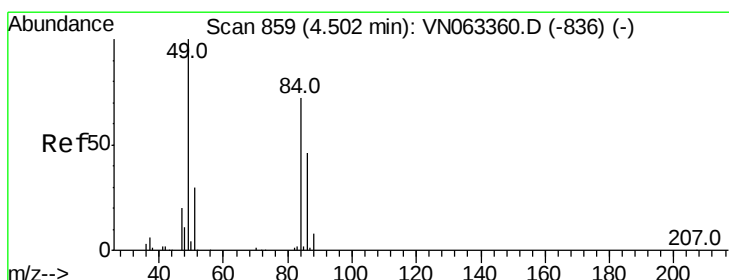
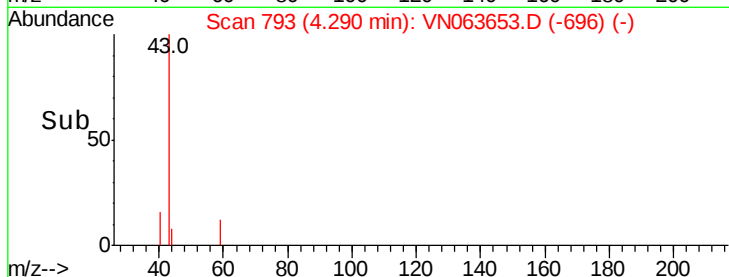
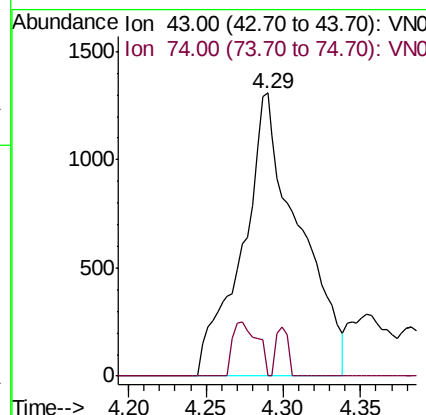
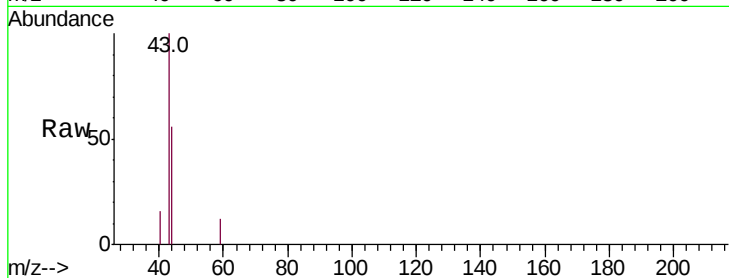




#18
Methvl Acetate
Concen: 1.101 ug/l
RT: 4.29 min Scan# 793
Delta R.T. 0.01 min
Lab File: VN063653.D
Acq: 25 Sep 2020 2:13

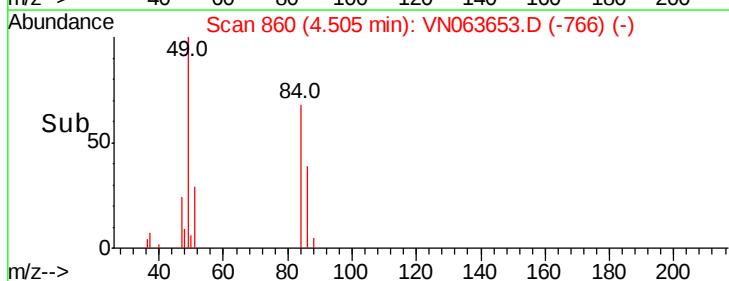
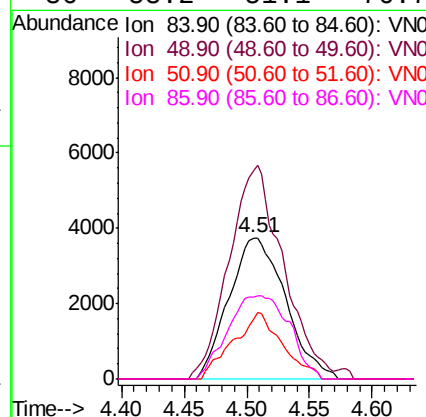
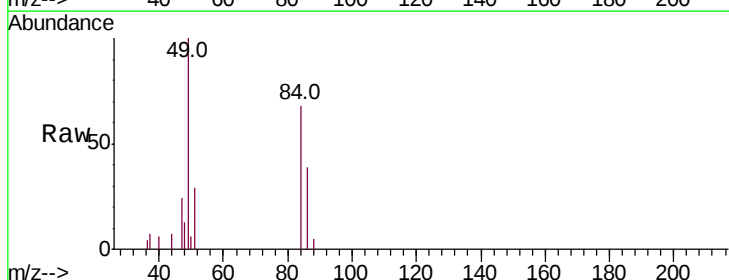
Instrument :
MSVOA_N
ClientSampled :
PB131850TB

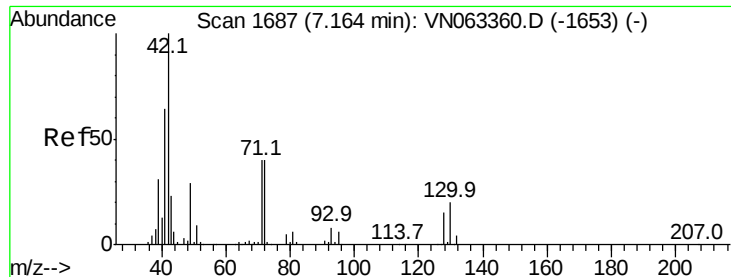
Tot Ion: 43 Resp: 3341
Ion Ratio Lower Upper
43 100
74 3.6 17.4 26.2#



#20
Methylene Chloride
Concen: 3.886 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063653.D
Acq: 25 Sep 2020 2:13

Tgt Ion: 84 Resp: 11772
Ion Ratio Lower Upper
84 100
49 143.3 110.7 166.1
51 42.9 32.9 49.3
86 58.2 51.1 76.7





#29

Tetrahydrofuran

Concen: 0.279 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN063653.D

Acq: 25 Sep 2020 2:13

Instrument :

MSVOA_N

ClientSampleId :

PB131850TB

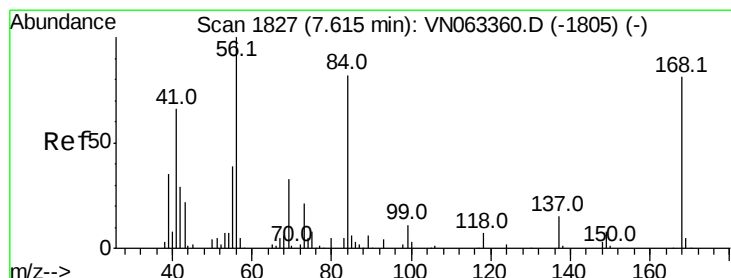
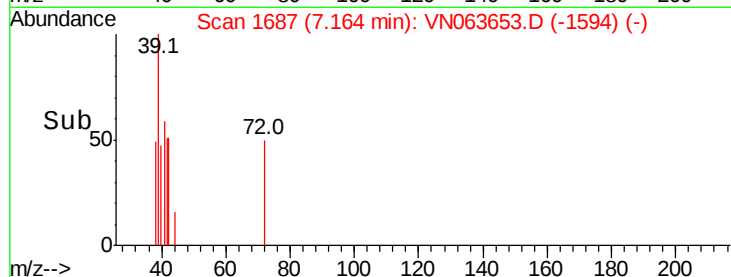
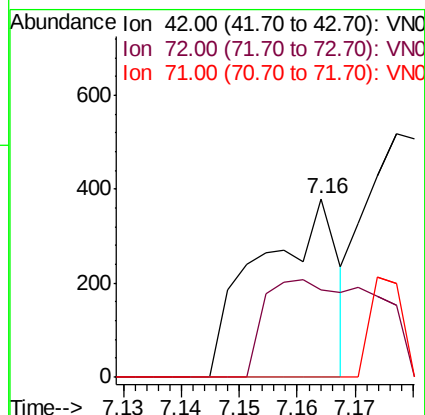
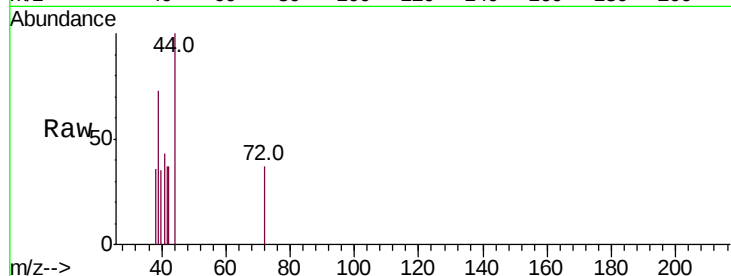
Tot Ion: 42 Resp: 351

Ion Ratio Lower Upper

42 100

72 80.9 32.1 48.1#

71 0.0 31.2 46.8#



#31

Cyclohexane

Concen: 1.254 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063653.D

Acq: 25 Sep 2020 2:13

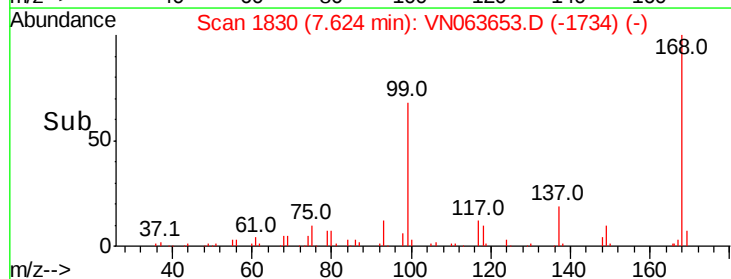
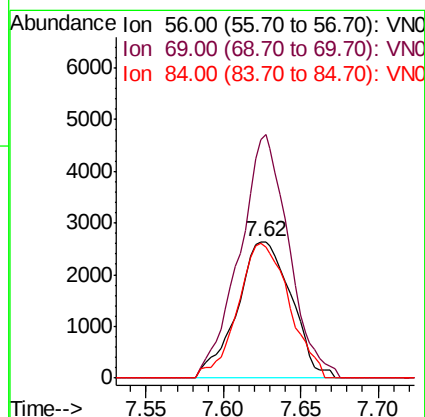
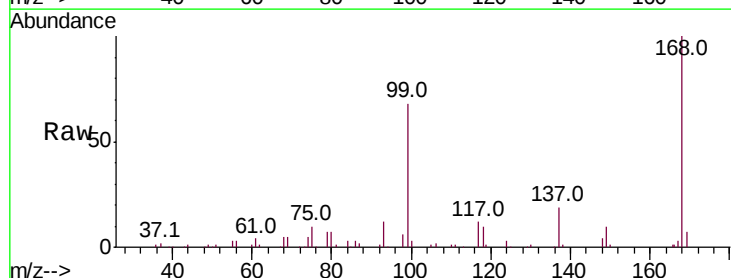
Tgt Ion: 56 Resp: 6445

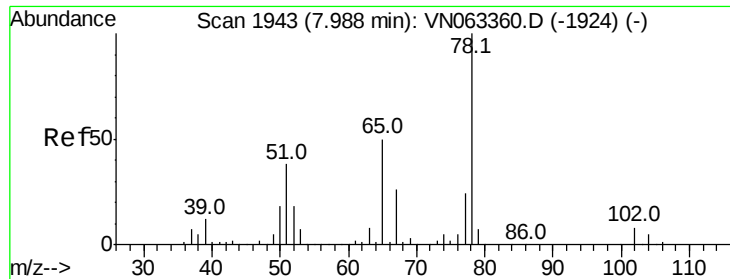
Ion Ratio Lower Upper

56 100

69 175.0 26.1 39.1#

84 98.4 65.4 98.2#





#33

1,2-Dichloroethane-d4

Concen: 49.308 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN063653.D

Acq: 25 Sep 2020 2:13

Instrument :

MSVOA_N

ClientSampleId :

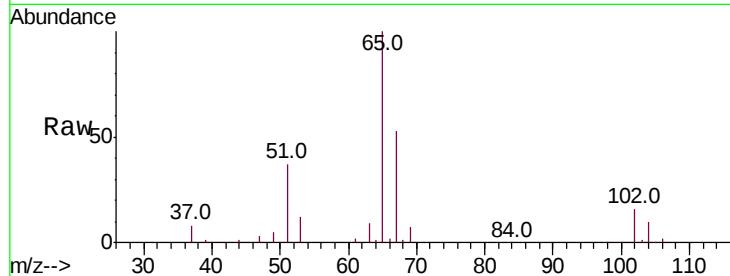
PB131850TB

Tot Ion: 65 Resp: 183454

Ion Ratio Lower Upper

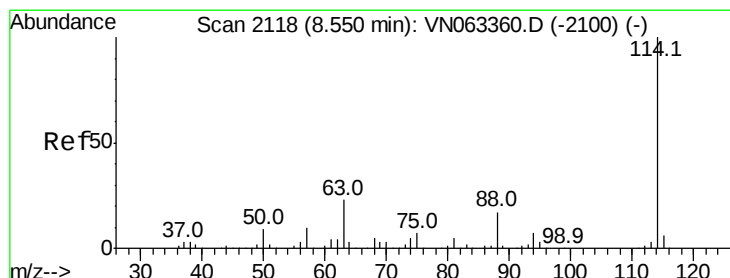
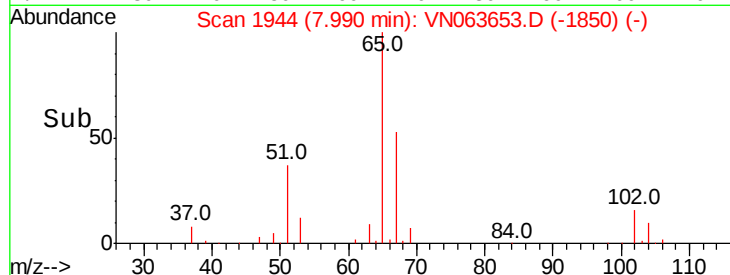
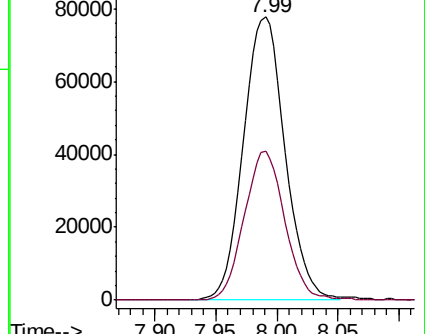
65 100

67 51.2 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN063360.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN063360.D (-1924) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063653.D

Acq: 25 Sep 2020 2:13

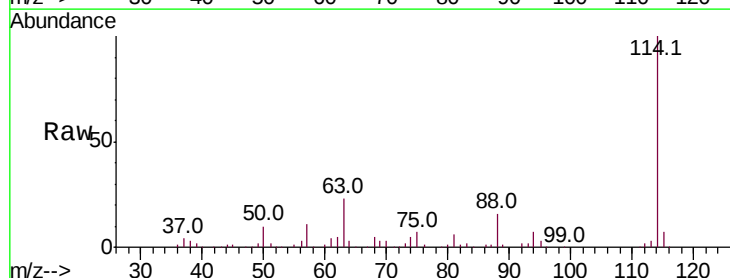
Tgt Ion: 114 Resp: 412330

Ion Ratio Lower Upper

114 100

63 22.9 0.0 46.4

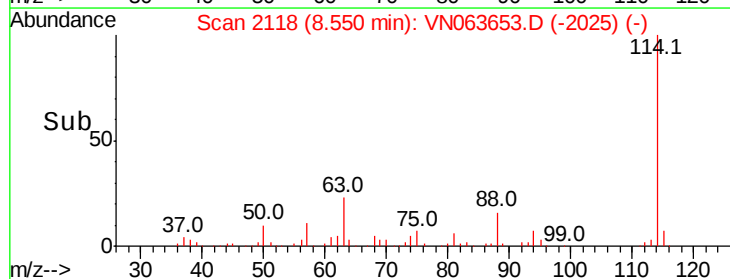
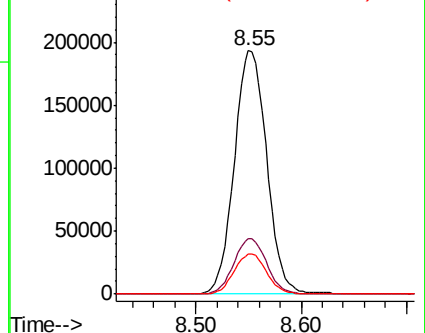
88 16.4 0.0 33.2

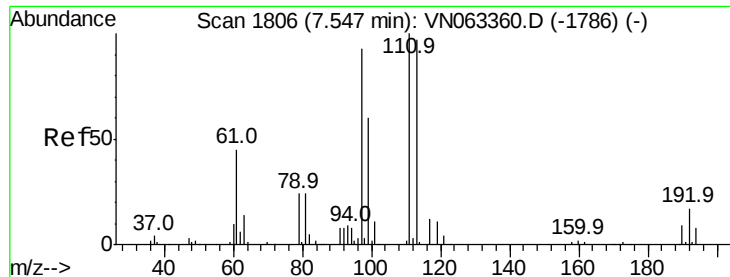


Abundance Ion 113.90 (113.60 to 114.60): VN063360.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN063360.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN063360.D (-2100) (-)

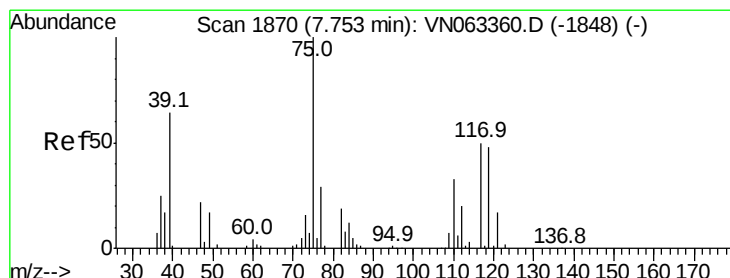
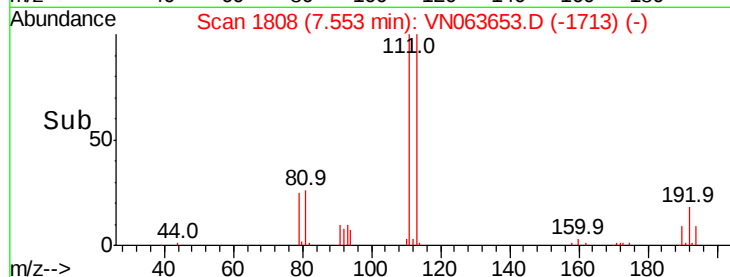
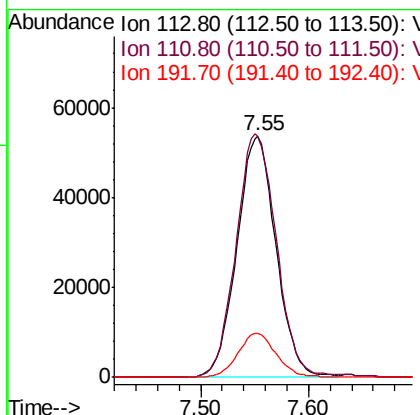
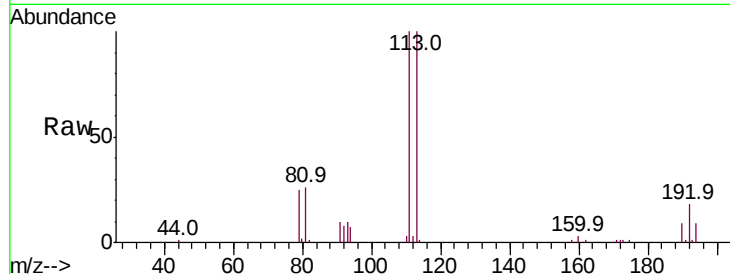




#35
 Dibromofluoromethane
 Concen: 47.424 ug/l
 RT: 7.55 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: VN063653.D
 Acq: 25 Sep 2020 2:13

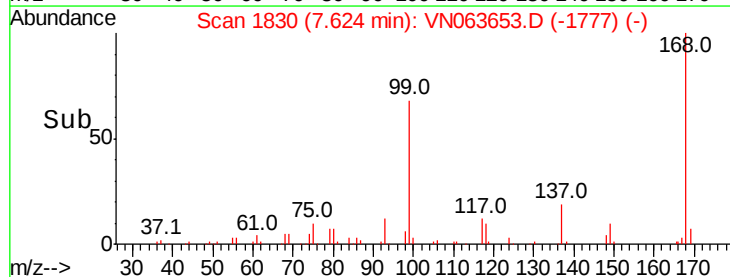
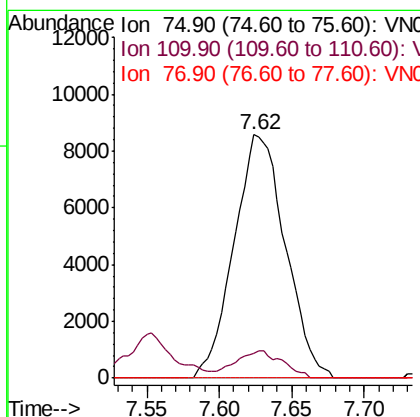
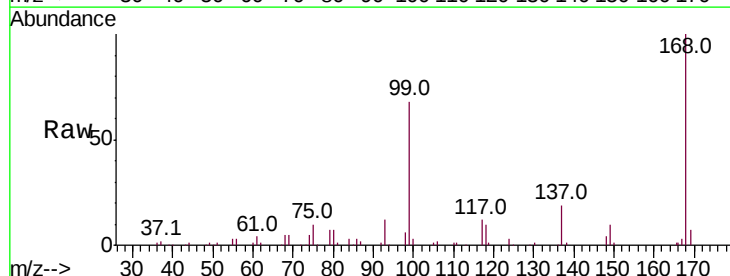
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131850TB

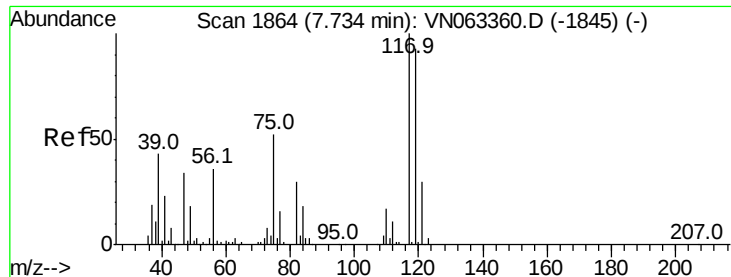
Tot Ion:113 Resp: 135372
 Ion Ratio Lower Upper
 113 100
 111 103.8 82.9 124.3
 192 17.9 13.9 20.9



#36
 1,1-Dichloropropene
 Concen: 4.815 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063653.D
 Acq: 25 Sep 2020 2:13

Tgt Ion: 75 Resp: 21153
 Ion Ratio Lower Upper
 75 100
 110 10.2 16.5 49.5#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.453 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063653.D

Acq: 25 Sep 2020 2:13

Instrument :

MSVOA_N

ClientSampleId :

PB131850TB

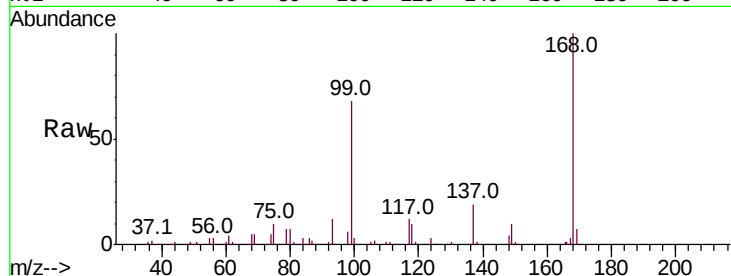
Tot Ion:117 Resp: 24454

Ion Ratio Lower Upper

117 100

119 7.1 74.5 111.7#

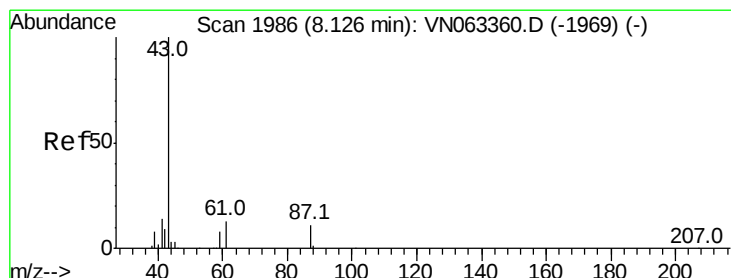
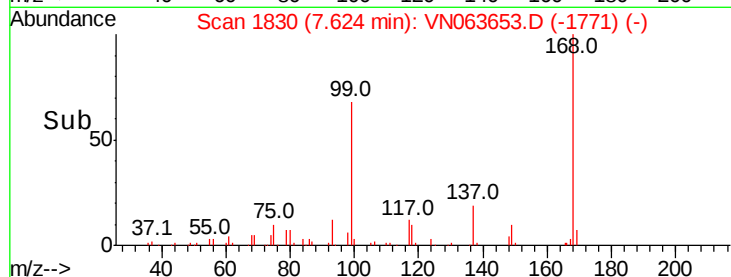
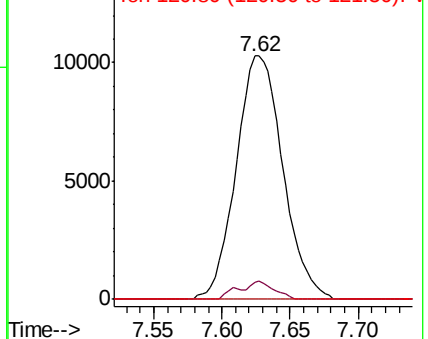
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 9.321 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063653.D

Acq: 25 Sep 2020 2:13

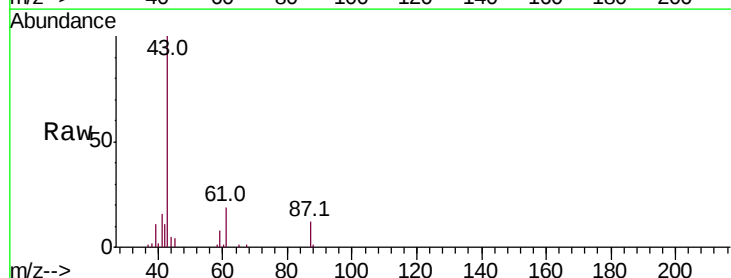
Tgt Ion: 43 Resp: 71854

Ion Ratio Lower Upper

43 100

61 19.0 14.2 21.2

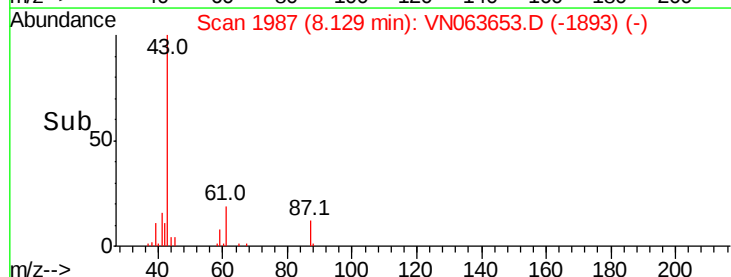
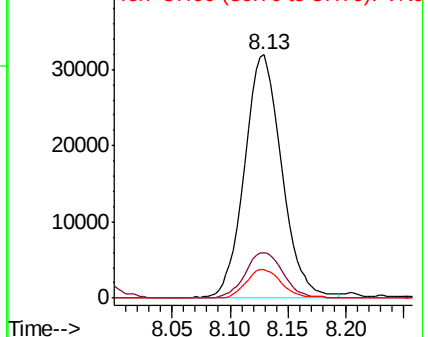
87 11.1 9.0 13.6

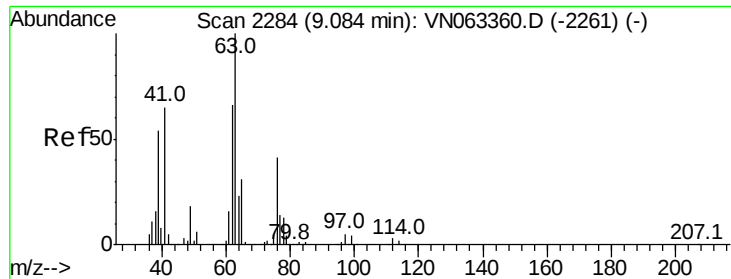


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.467 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063653.D

Acq: 25 Sep 2020 2:13

Instrument :

MSVOA_N

ClientSampled :

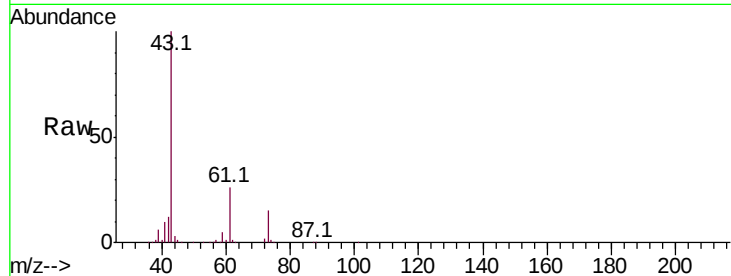
PB131850TB

Tot Ion: 63 Resp: 1595

Ion Ratio Lower Upper

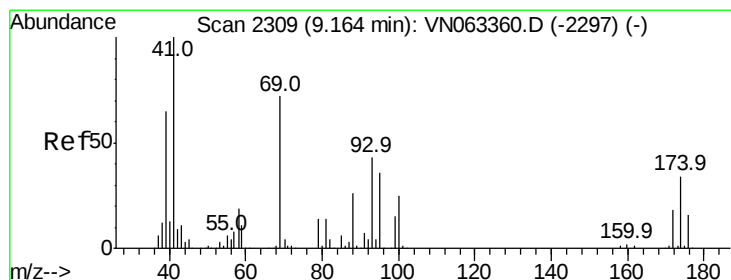
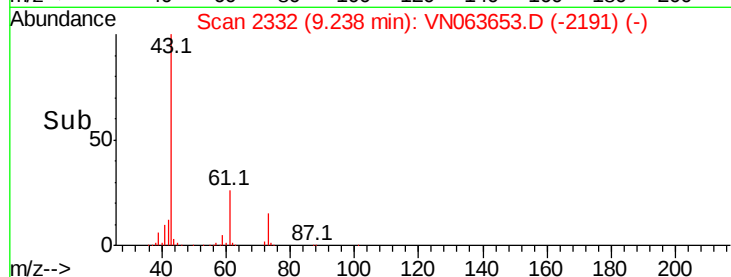
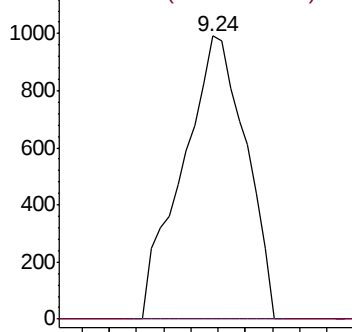
63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 1.200 ug/l

RT: 9.14 min Scan# 2301

Delta R.T. -0.03 min

Lab File: VN063653.D

Acq: 25 Sep 2020 2:13

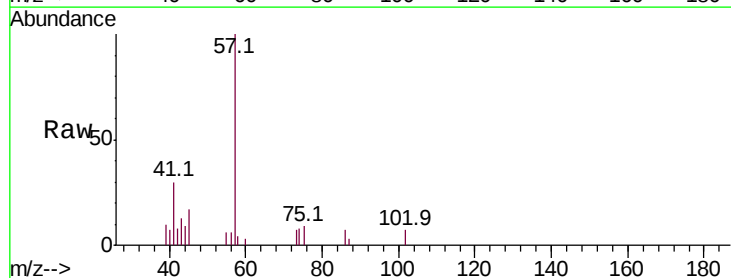
Tgt Ion: 41 Resp: 4545

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

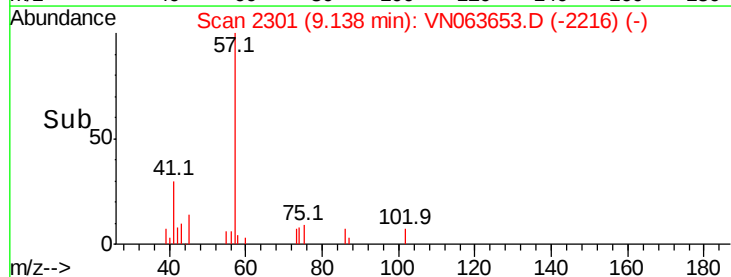
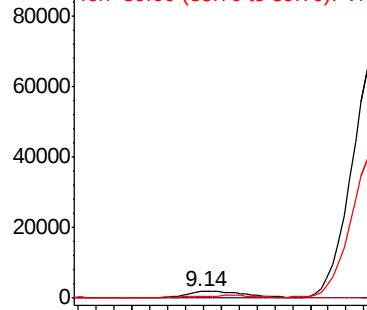
39 0.0 52.9 79.3#

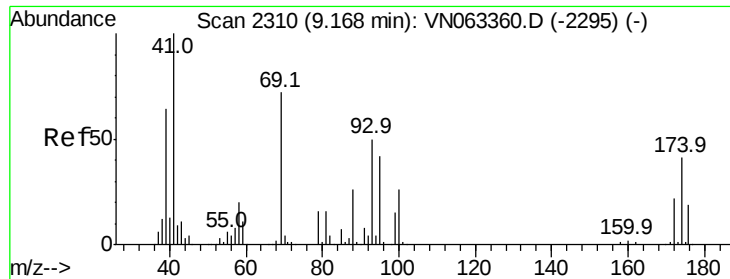


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#49

1,4-Dioxane

Concen: 1.067 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN063653.D

Acq: 25 Sep 2020 2:13

Instrument :

MSVOA_N

ClientSampleId :

PB131850TB

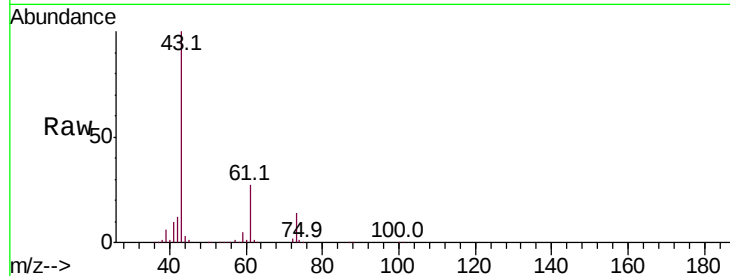
Tot Ion: 88 Resp: 58

Ion Ratio Lower Upper

88 100

43 2120151.7 32.6 49.0#

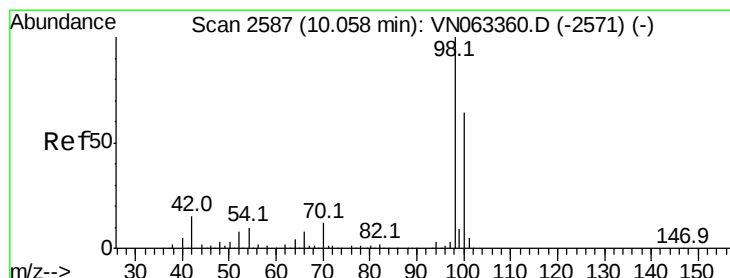
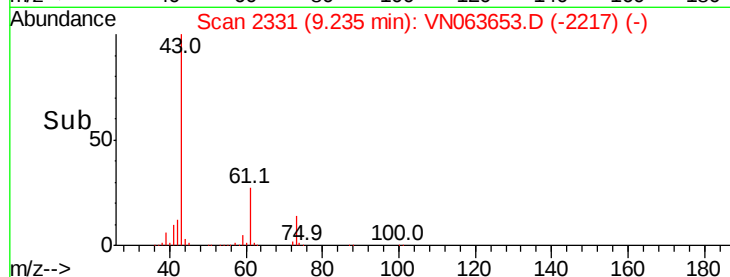
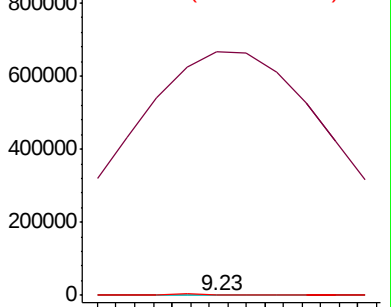
58 9475.9 60.0 90.0#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 51.664 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063653.D

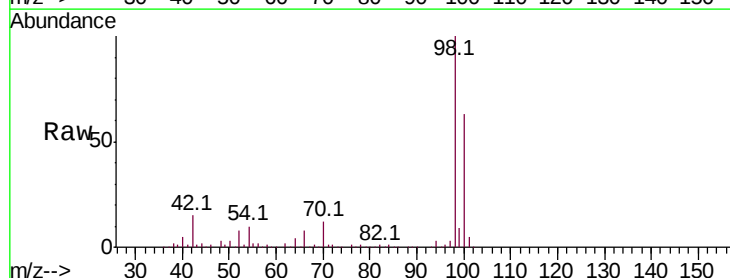
Acq: 25 Sep 2020 2:13

Tgt Ion: 98 Resp: 554530

Ion Ratio Lower Upper

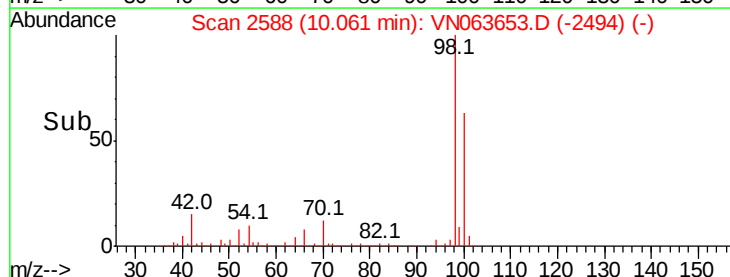
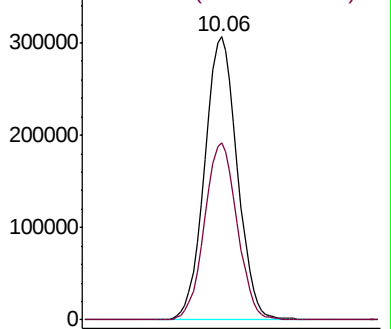
98 100

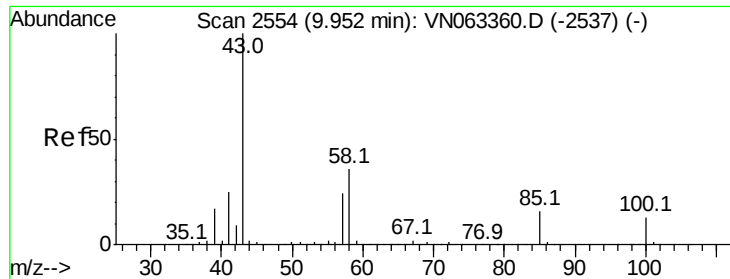
100 62.7 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.613 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063653.D

Acq: 25 Sep 2020 2:13

Instrument :

MSVOA_N

ClientSampleId :

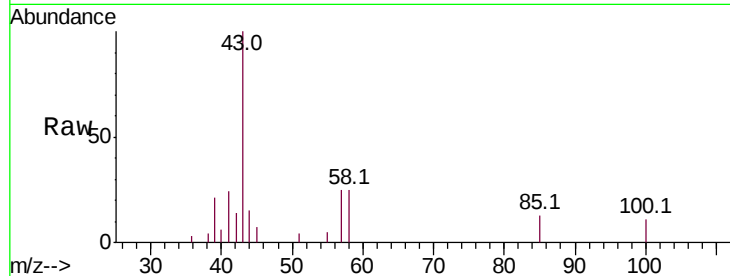
PB131850TB

Tot Ion: 43 Resp: 6962

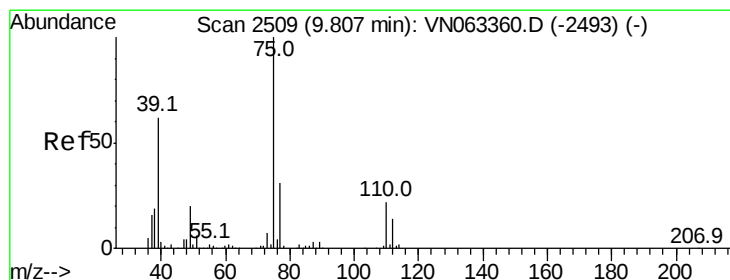
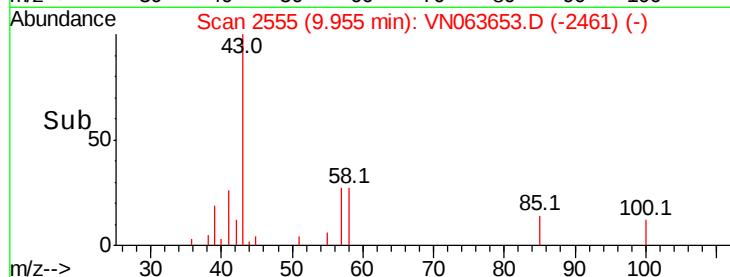
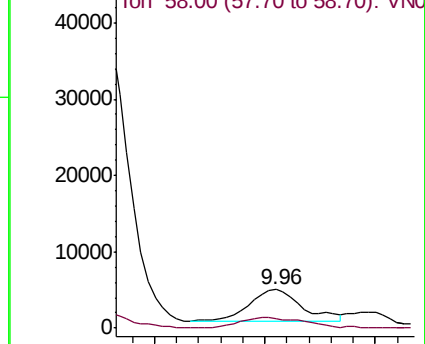
Ion Ratio Lower Upper

43 100

58 39.8 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-2537) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.512 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063653.D

Acq: 25 Sep 2020 2:13

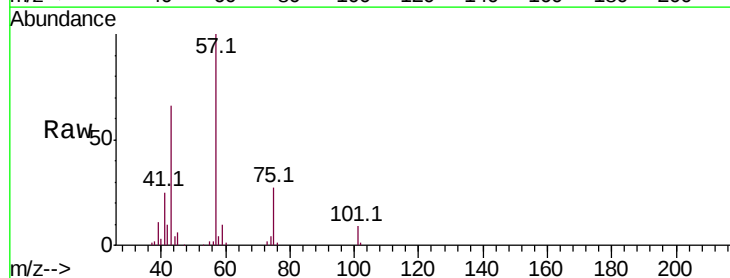
Tgt Ion: 75 Resp: 30266

Ion Ratio Lower Upper

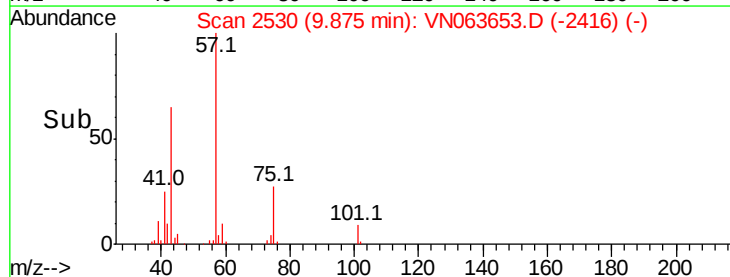
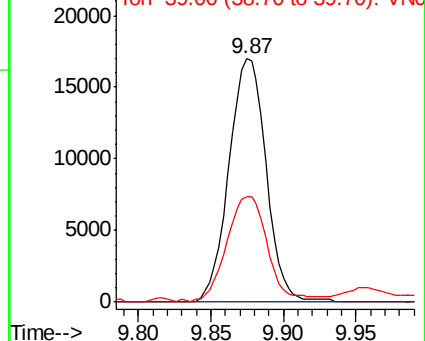
75 100

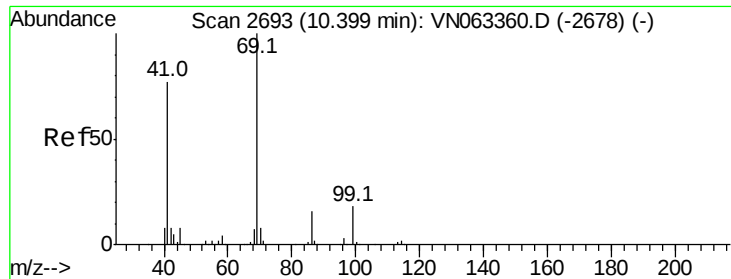
77 0.0 24.6 37.0#

39 43.1 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-2493) (-)





#56

Ethyl methacrylate

Concen: 0.380 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN063653.D

Acq: 25 Sep 2020 2:13

Instrument :

MSVOA_N

ClientSampleId :

PB131850TB

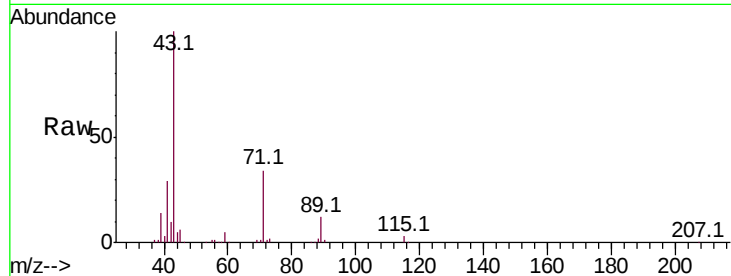
Tot Ion: 69 Resp: 1775

Ion Ratio Lower Upper

69 100

41 4967.9 61.0 91.6#

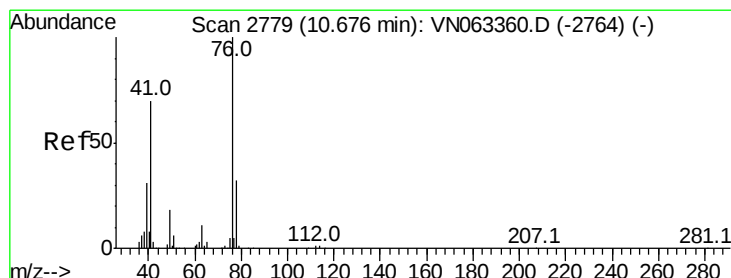
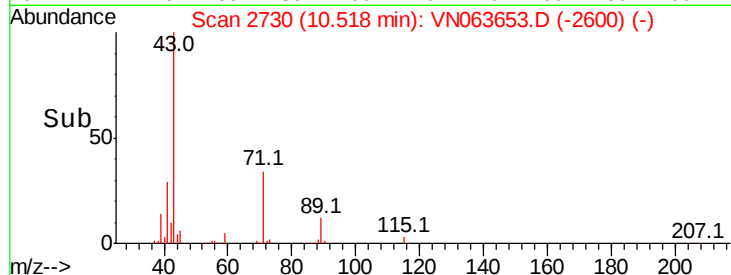
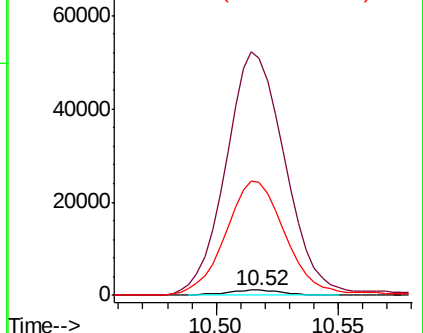
39 2326.8 39.2 58.8#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.955 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063653.D

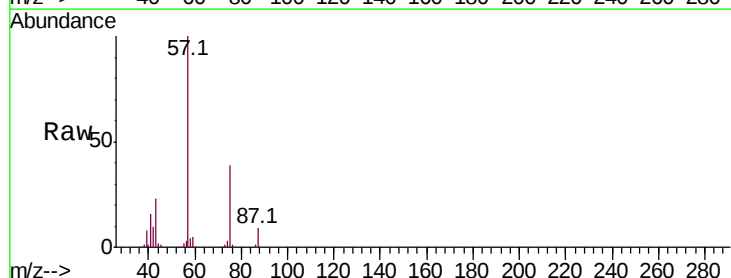
Acq: 25 Sep 2020 2:13

Tgt Ion: 76 Resp: 5158

Ion Ratio Lower Upper

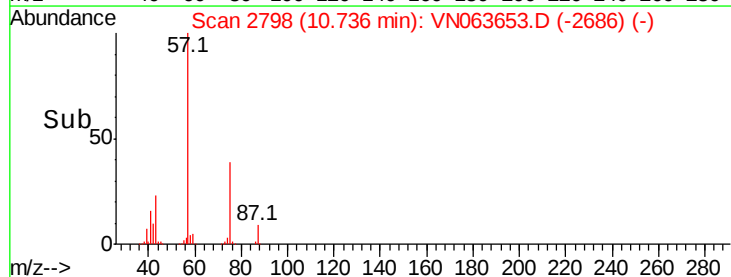
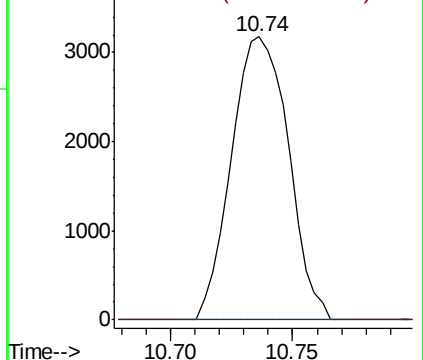
76 100

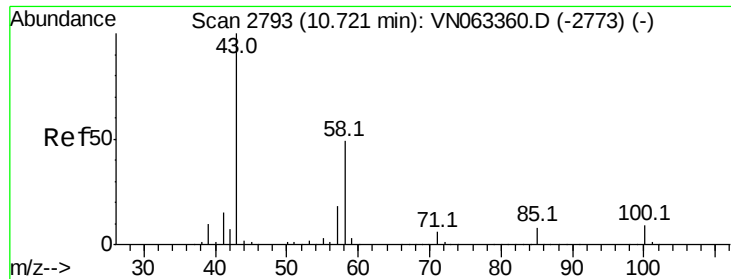
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 26.900 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063653.D

Acq: 25 Sep 2020 2:13

Instrument :

MSVOA_N

ClientSampleId :

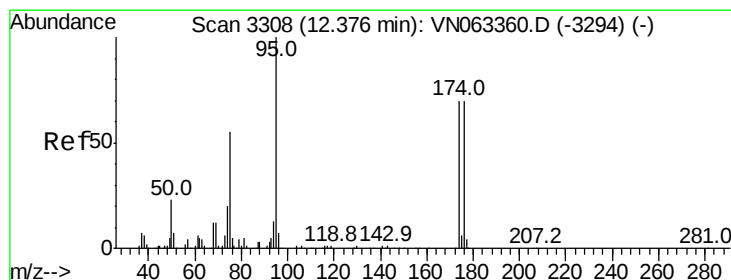
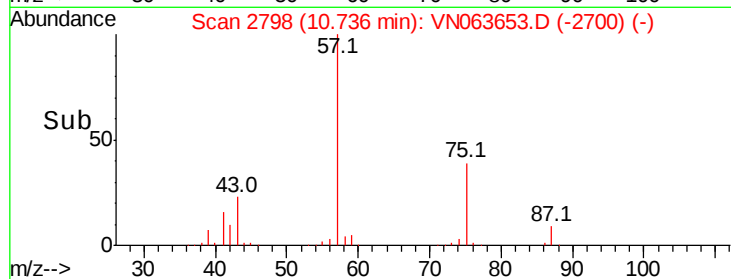
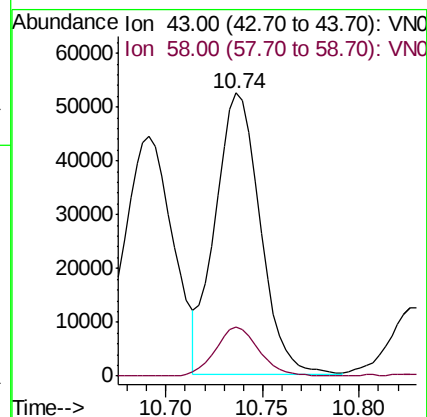
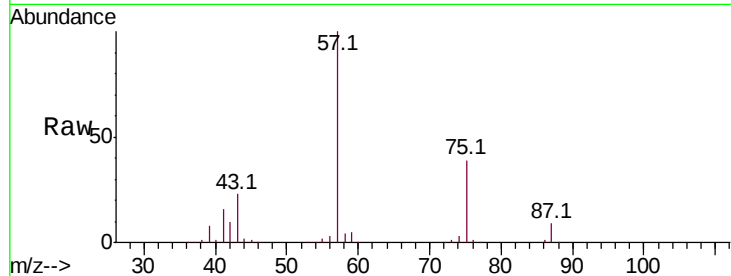
PB131850TB

Tot Ion: 43 Resp: 84107

Ion Ratio Lower Upper

43 100

58 17.0 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 54.941 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063653.D

Acq: 25 Sep 2020 2:13

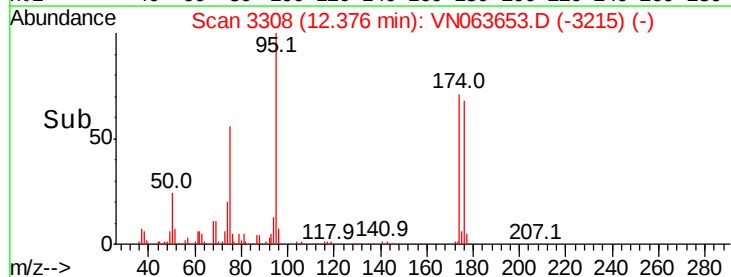
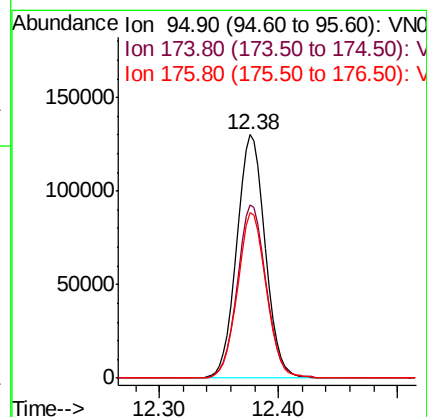
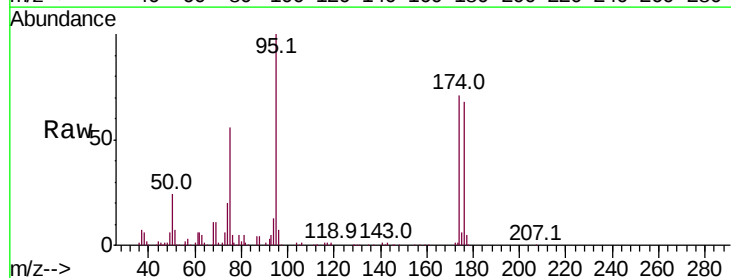
Tgt Ion: 95 Resp: 216172

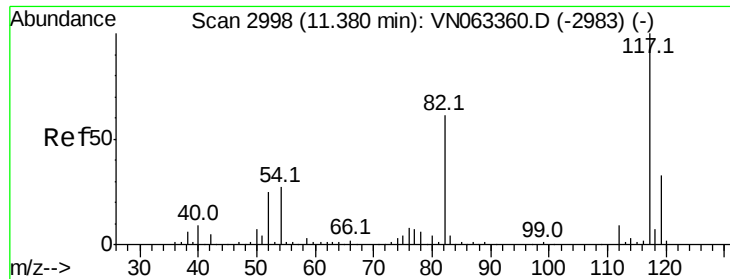
Ion Ratio Lower Upper

95 100

174 72.1 0.0 140.8

176 69.0 0.0 137.6

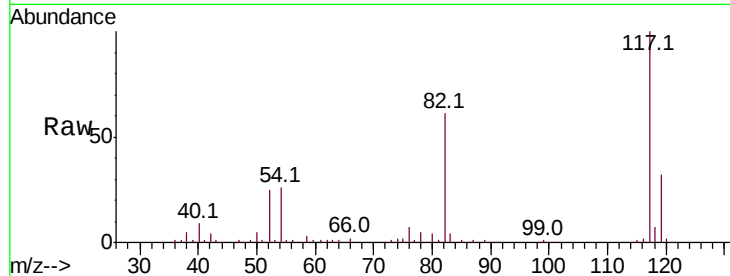




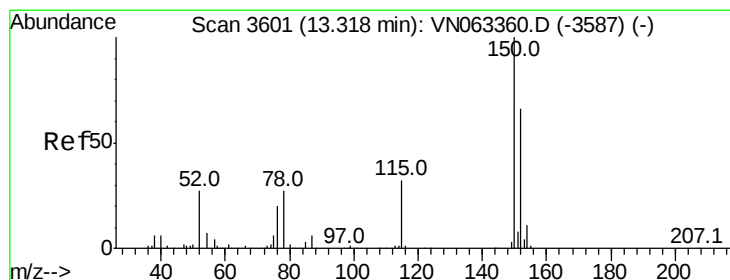
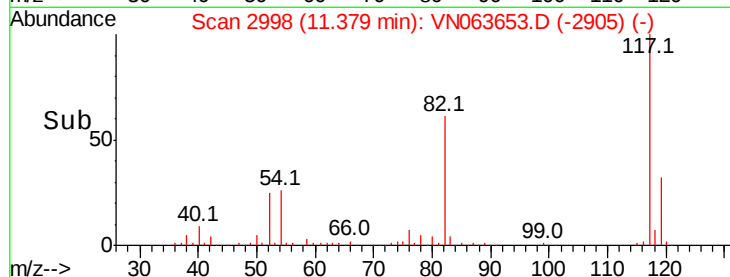
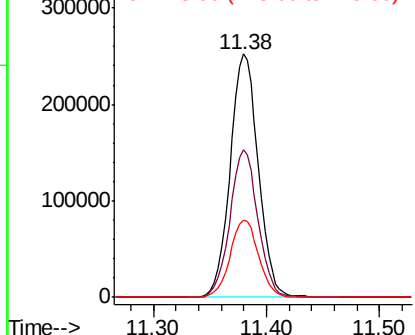
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063653.D
Acq: 25 Sep 2020 2:13

Instrument :
MSVOA_N
ClientSampleId :
PB131850TB

Tot Ion:117 Resp: 435334
Ion Ratio Lower Upper
117 100
82 60.6 49.2 73.8
119 31.8 26.2 39.4

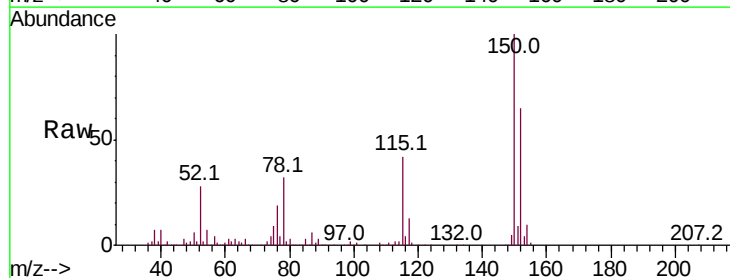


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

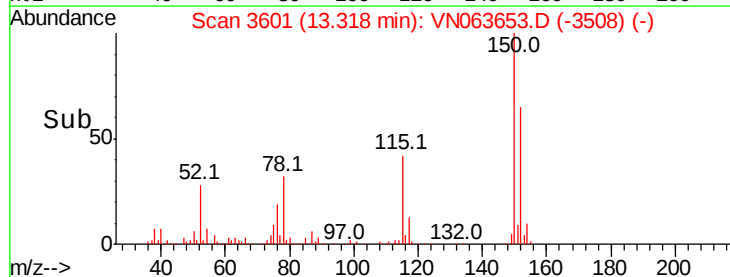
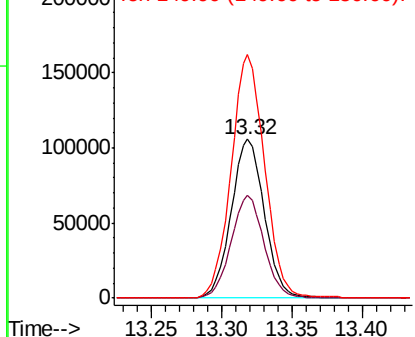


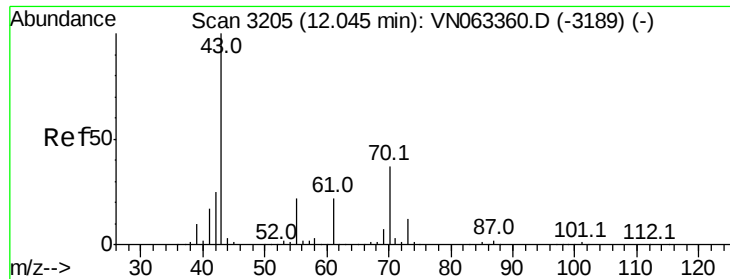
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063653.D
Acq: 25 Sep 2020 2:13

Tgt Ion:152 Resp: 174518
Ion Ratio Lower Upper
152 100
115 63.6 32.2 96.6
150 153.8 0.0 343.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 0.483 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063653.D

Acq: 25 Sep 2020 2:13

Instrument :

MSVOA_N

ClientSampleId :

PB131850TB

Tot Ion: 43 Resp: 3196

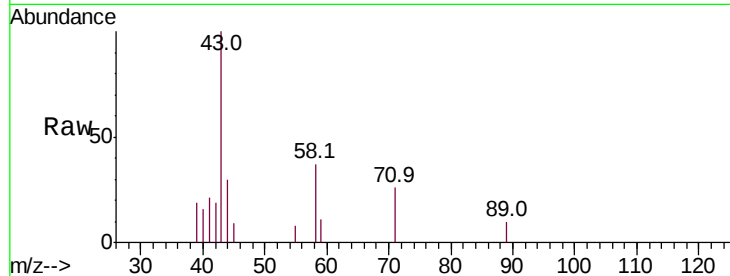
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 6.8 17.7 26.5#

61 0.0 17.4 26.2#

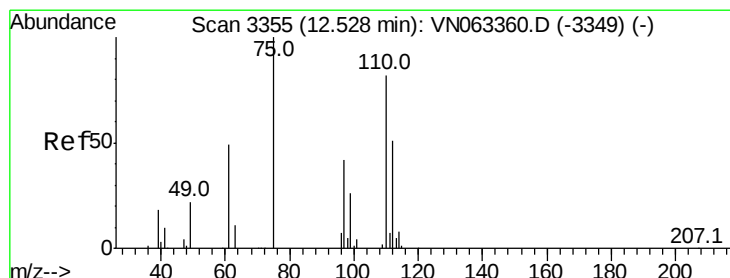
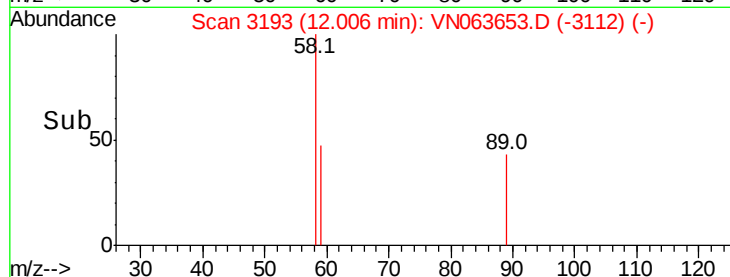
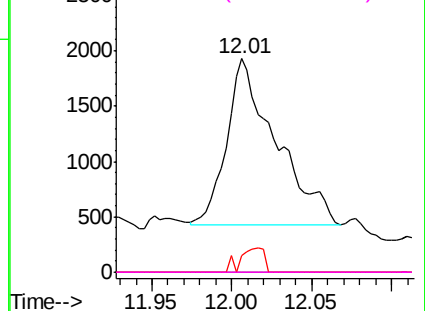


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 27.871 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063653.D

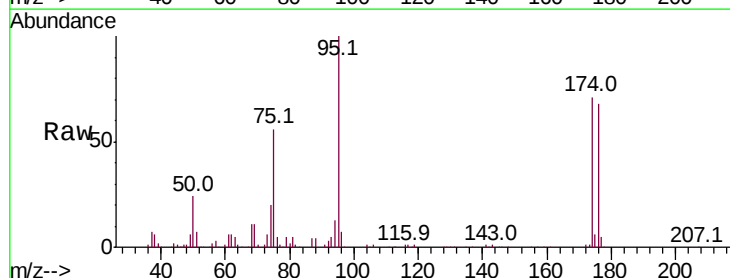
Acq: 25 Sep 2020 2:13

Tgt Ion: 75 Resp: 120391

Ion Ratio Lower Upper

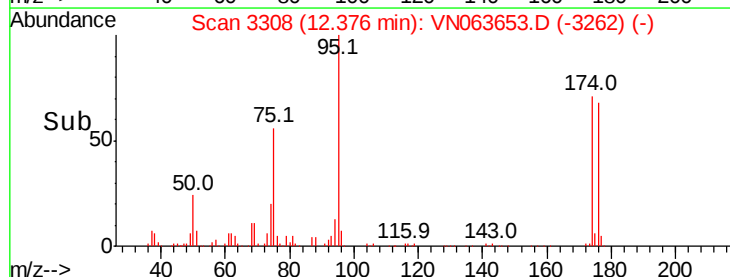
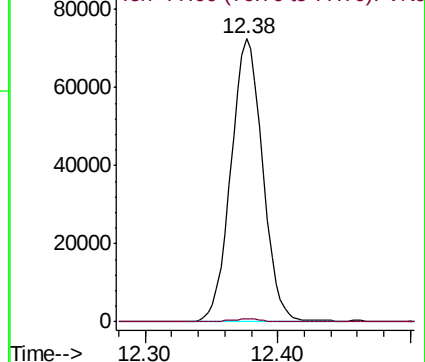
75 100

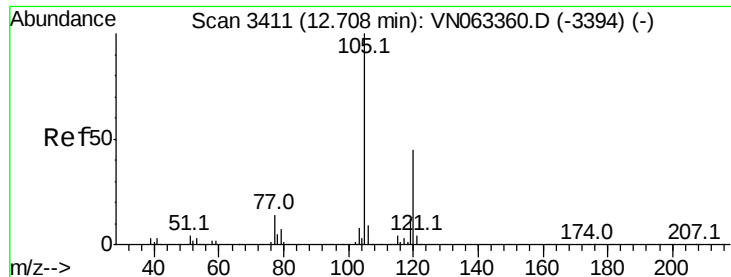
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.544 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. -0.00 min

Lab File: VN063653.D

Acq: 25 Sep 2020 2:13

Instrument :

MSVOA_N

ClientSampleId :

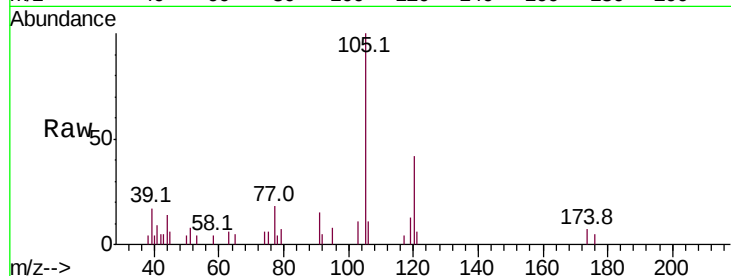
PB131850TB

Tot Ion:105 Resp: 6340

Ion Ratio Lower Upper

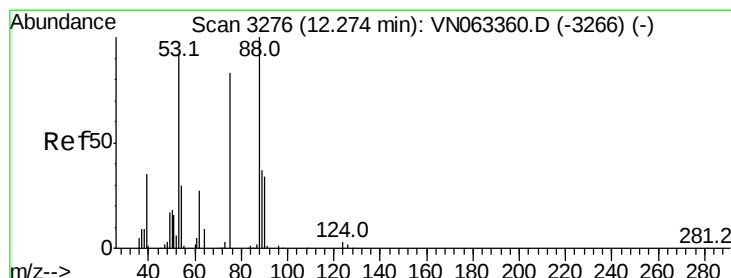
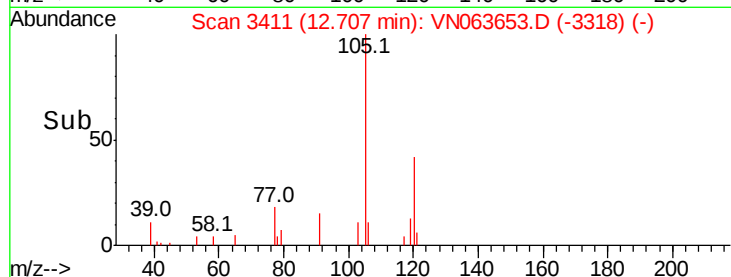
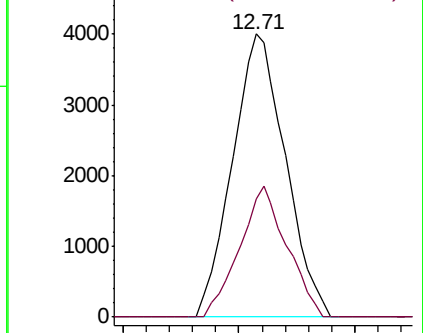
105 100

120 41.2 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 76.412 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063653.D

Acq: 25 Sep 2020 2:13

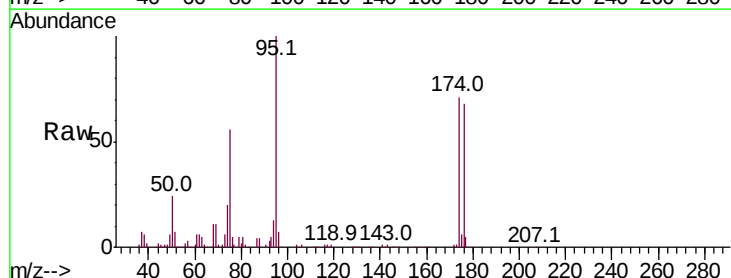
Tgt Ion: 75 Resp: 120391

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

